



STIC Search Report

EIC 2100

STIC Database Tracking Number: 141535

TO: Fred Ehichoya
Location: Jeff 3B31
Art Unit : 2162
Wednesday, January 05, 2005

Case Serial Number: 09/925397

From: David Holloway
Location: EIC 2100
RND 4B19
Phone: 2-3528

david.holloway@uspto.gov

Search Notes

Dear Examiner Ehichoya,

Attached please find your search results for above-referenced case.
Please contact me if you have any questions or would like a re-focused search.

David

Set	Items	Description
S1	2145674	SEARCH? OR QUERY OR QUERIES OR MATCH? OR SEEK? OR LOCATE? - OR LOCATING
S2	17448	S1(8N) (MULTIMEDIA? OR MULTI()MEDIA? OR MOVING() (PICTURE? OR IMAGE?) OR MPEG? OR MPG? OR WAV OR VIDEO? OR AUDIO? OR SOUND-?)
S3	464875	(LOW OR HIGH) ()LEVEL? OR HIGHLEVEL? OR LOWLEVEL?
S4	3726709	TRANSLAT? OR TRANSFORM? OR REFORMAT? OR CONVERT? OR CONVERSION? OR COMPILE?
S5	51233	(MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR MANY OR SEVERAL OR DIFFERENT?) (3N) (DATABASE? OR ENGINE? OR SEARCHENGINE? OR DB OR RDB OR DATA() (BANK? OR BASE?))
S6	48891	(LIBRAR? OR COLLECTION? OR GROUP? OR CLUSTER?) (3N) (MODULE? OR CONSTRAINT? OR CONSTRUCT? OR TEMPLATE? OR CONCEPT?)
S7	20590	(SAVE? OR CACHE? OR PRESERV? OR DATABASE? OR DATABANK? OR - DB OR DATA() (BASE? OR BANK?)) (3N) (QUERY OR QUERIES OR SEARCH(-) (STRING? OR STATEMENT? OR STEP OR STEPS))
S8	61	S2 AND S3 AND S4
S9	8	S8 AND (S5 OR S6 OR S7)
S10	0	S2 AND S3 AND S4 AND S5
S11	1	S3 AND S4 AND S5 AND S6
S12	18	S3 AND S4 AND S5 AND S7
S13	27	S12 OR S11 OR S9
S14	18	RD (unique items)
S15	74	S8 OR S14
S16	56	RD (unique items)
S17	35	S16 NOT PY>2001
S18	35	S17 NOT PD=20010809:20040809
S19	35	S18 NOT PD=20040809:20050112
File	8: Ei	Compendex(R) 1970-2005/Dec W4 (c) 2005 Elsevier Eng. Info. Inc.
File	35: Dissertation	Abs Online 1861-2004/Dec (c) 2004 ProQuest Info&Learning
File	65: Inside	Conferences 1993-2005/Jan W1 (c) 2005 BLDSC all rts. reserv.
File	2: INSPEC	1969-2004/Dec W2 (c) 2004 Institution of Electrical Engineers
File	94: JICST-Eplus	1985-2004/Nov W4 (c) 2004 Japan Science and Tech Corp(JST)
File	111: TGG Natl.	Newspaper Index(SM) 1979-2005/Jan 03 (c) 2005 The Gale Group
File	6: NTIS	1964-2004/Dec W4 (c) 2004 NTIS, Intl Cpyrght All Rights Res
File	144: Pascal	1973-2004/Dec W1 (c) 2004 INIST/CNRS
File	434: SciSearch(R)	Cited Ref Sci 1974-1989/Dec (c) 1998 Inst for Sci Info
File	34: SciSearch(R)	Cited Ref Sci 1990-2004/Dec W4 (c) 2004 Inst for Sci Info
File	62: SPIN(R)	1975-2004/Oct W4 (c) 2004 American Institute of Physics
File	99: Wilson Appl.	Sci & Tech Abs 1983-2004/Nov (c) 2004 The HW Wilson Co.
File	95: TEME-Technology	& Management 1989-2004/Jun W1 (c) 2004 FIZ TECHNIK

19/5/1 (Item 1 from file: 8)
DIALOG(R) File 8: Ei Compendex(R)
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05992031 E.I. No: EIP02046834669

Title: Improving federated database queries using declarative rewrite rules for quantified subqueries

Author: Kemp, Graham J.L.; Gray, Peter M.D.; Sjostedt, Andreas R.

Corporate Source: Department of Computing Science University of Aberdeen King's College, Aberdeen, AB24 3UE, United Kingdom

Source: Journal of Intelligent Information Systems v 17 n 2-3 December 2001. p 281-299

Publication Year: 2001

CODEN: JIISEH ISSN: 0925-9902

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 0201W4

Abstract: **Transforming** queries for efficient execution is particularly important in federated database systems since a more efficient execution plan can require many fewer data requests to be sent to the component databases. Also, it is important to do as much as possible of the selection and processing close to where the data are stored, making best use of facilities provided by the federation's component database management systems. In this paper we address the problem of processing complex queries including quantifiers, which have to be executed against **different databases** in an expanding heterogeneous federation. This is done by **transforming** queries within a mediator for global query improvement, and within wrappers to make the best use of the query processing capabilities of external databases. Our approach is based on pattern matching and query rewriting. We introduce a **high level** language for expressing rewrite rules declaratively, and demonstrate the use and flexibility of such rules in improving query performance for existentially quantified subqueries. Extensions to this language that allow generic rewrite rules to be expressed are also presented. The value of performing final **transformations** within a wrapper for a given remote **database** is shown in **several** examples that use AMOS II - an SQL3-like system. 32 Refs.

Descriptors: *Distributed **database** systems; **Query** languages; Pattern matching; **High level** languages; Data storage equipment; Information retrieval; Data structures

Identifiers: Federated database system; Functional data model; Query processing; Query rewriting; Rewrite rules

Classification Codes:

723.1.1 (Computer Programming Languages)

723.3 (Database Systems); 723.1 (Computer Programming); 723.5

(Computer Applications); 722.1 (Data Storage, Equipment & Techniques);

723.2 (Data Processing)

723 (Computer Software, Data Handling & Applications); 722 (Computer Hardware)

72 (COMPUTERS & DATA PROCESSING)

19/5/4 (Item 4 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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05944018 E.I. No: EIP01476740320

Title: **IMKA: A multimedia organization system combining perceptual and semantic knowledge**

Author: Benitez, A.B.; Chang, S.-F.; Smith, J.R.

Corporate Source: Dept. of Electrical Engineering Columbia University,
New York, NY 10027, United States

Conference Title: -ACM Multimedia 2001 Workshops- 2001 Multimedia
Conference

Conference Location: Ottawa, Ont., Canada Conference Date:
20010930-20011005

Sponsor: ACM Special Interest Groups

E.I. Conference No.: 58703

Source: Proceedings of the ACM International Multimedia Conference and
Exhibition n IV 2001. p 630-631

Publication Year: 2001

Language: English

Document Type: CA; (Conference Article) Treatment: A; (Applications)

Journal Announcement: 0111W4

Abstract: In this demo, we present the IMKA system, which implements the innovative approach of integrating perceptual information such as **low - level** features and images, and symbolic information such as words to represent the knowledge associated with a large multimedia collection for multimedia organization and retrieval. The IMKA system utilizes the unique MediaNet framework, which greatly extends existing knowledge representation tools in the text domain (e.g., semantic networks and WordNet) and the multimedia domain (e.g., Multimedia Thesaurus) by combining perceptual and semantic concepts in the same network and by supporting perceptual and semantic relationships among concepts exemplified by different media. It also brings the level of multimedia retrieval closer to users' needs by **translating low - level** feature queries to **high - level** semantic queries and vice versa. We will demonstrate the process of constructing the MediaNet knowledge base and new ways of **searching multimedia** in the IMKA system by presenting the current implementation of the IMKA system that uses image collections from online sources. 4 Refs.

Descriptors: *Multimedia systems; Semantics; Thesauri; Online
searching ; Knowledge representation

Identifiers: Multimedia organization system; Knowledge construction

Classification Codes:

723.5 (Computer Applications); 903.2 (Information Dissemination); 723.4
(Artificial Intelligence)

723 (Computer Software, Data Handling & Applications); 903 (Information
Science)

72 (COMPUTERS & DATA PROCESSING); 90 (ENGINEERING, GENERAL)

19/5/7 (Item 7 from file: 8)
DIALOG(R) File 8: Ei Compendex(R)
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05654717 E.I. No: EIP00095338217

Title: Integration of intelligent engines for a large scale medical image database

Author: Tang, Lilian H.Y.; Hanka, Rudolf; Ip, Horace H.S.; Cheung, Kent K.T.; Lam, Ringo

Corporate Source: Univ of Cambridge, Cambridge, Engl

Conference Title: CBMS 2000: 13th IEEE Sympoisum on Computer-Based Medical Systems

Conference Location: Houston, TX, USA Conference Date: 19000622-19000624

Sponsor: IEEE

E.I. Conference No.: 57265

Source: Proceedings of the IEEE Symposium on Computer-Based Medical Systems 2000. IEEE, Los Alamitos, CA, USA. p 235-240

Publication Year: 2000

CODEN: PSCSFM ISSN: 1063-7125

Language: English

Document Type: CA; (Conference Article) Treatment: A; (Applications); T; (Theoretical)

Journal Announcement: 0010W4

Abstract: In this paper we present a semantic content representation scheme and the associated techniques for supporting (a) query by image examples or by natural language in a histological image database and (b) automatic annotation generation for images through image semantic analysis. In this research, various types of query are analysed by either a semantic analyser or a natural language analyser to extract **high level** concepts and histological information, which are subsequently **converted** into an internal semantic content representation structure code-named 'Papillon'. Papillon serves not only as an intermediate representation scheme but also stores the semantic content of the image that will be used to match against the semantic index structure within the image **database** during **query** processing. During the image database population phase, all images that are going to be put into the database will go through the same processing so that every image would have its semantic content represented by a Papillon structure. Since the Papillon structure for an image contains **high level** semantic information of the image, it forms the basis of the technique that automatically generates textual annotation for the input images. Papillon bridges the gap between **different** media in the **database**, allows complicated intelligent browsing to be carried out efficiently, and also provides a well-defined semantic content representation scheme for **different** content processing **engines** developed for content-based retrieval. (Author abstract) 4 Refs.

Descriptors: *Medical imaging; Search engines; Database systems; Large scale systems; Computational linguistics; Natural language processing systems; Data structures; Information retrieval

Identifiers: Intelligent engines; Medical image database; Content based retrieval; Histological image

Classification Codes:

461.1 (Biomedical Engineering); 723.4 (Artificial Intelligence); 723.3 (Database Systems); 721.1 (Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory, Programming Theory); 723.2 (Data Processing); 723.5 (Computer Applications)

461 (Biotechnology); 723 (Computer Software); 721 (Computer Circuits & Logic Elements)

46 (BIOENGINEERING); 72 (COMPUTERS & DATA PROCESSING)

19/5/14 (Item 14 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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04515407 E.I. No: EIP96103350010

Title: Integration of a relational database with multimedia data
Author: Chung, Soon M.; Mah, Pyeong S.; Kim, Junguk L.
Corporate Source: Wright State Univ, Dayton, OH, USA
Conference Title: Proceedings of the 1996 IEEE 20th Annual International Computer Software & Applications Conference, COMPSAC'96
Conference Location: Seoul, S Korea **Conference Date:** 19960821-19960823
Sponsor: IEEE
E.I. Conference No.: 45361
Source: Proceedings - IEEE Computer Society's International Computer Software & Applications Conference 1996. IEEE, Los Alamitos, CA, USA, 96CB35986. p 290-297
Publication Year: 1996
CODEN: PSICD2 **ISSN:** 0730-6512
Language: English
Document Type: CA; (Conference Article) **Treatment:** A; (Applications); T; (Theoretical)
Journal Announcement: 9611W4

Abstract: In this paper, we propose a method to integrate a preexisting conventional database system with a multimedia server in the multidatabase environment. In the multidatabase environment, changes in the preexisting database system are not allowed because such changes are too expensive. For the integration, **high - level** semantic description of multimedia data is modeled using the enhanced entity-relationship (EER) model to support content-based retrieval of multimedia data. The EER design is **translated** into a schema of the preexisting database system, and then the **translated** schema is integrated with the preexisting database schema. The content description can be used to **locate** pertinent **multimedia** data, and the identifiers are used to access the multimedia data stored in the multimedia server. However, with only a simple schema representation of the semantic description of **multimedia** data, **high levels** of recall and precision of **queries** may not be obtained because conventional database systems provide only exact matching answers to the query. Thus, we extended the conventional query processing mechanism by providing a modified cooperative query answering mechanism. (Author abstract) 19 Refs.

Descriptors: *Relational **database** systems; Data structures; **Query** languages; Data description; Computational linguistics; Information retrieval

Identifiers: Multimedia data; Enhanced entity relationship; Content based retrieval; Semantic description; Cooperative query; Binary large object; Cooperative query answering mechanism; Information systems

Classification Codes:

723.1.1 (Computer Programming Languages)

723.3 (Database Systems); 723.2 (Data Processing); 723.1 (Computer Programming); 721.1 (Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory, Programming Theory); 903.3 (Information Retrieval & Use)

19/5/15 (Item 15 from file: 8)
DIALOG(R) File 8: Ei Compendex(R)
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03622365 E.I. No: EIP93020715014

Title: **Semantic query processing in multidatabase systems: a logic-based approach**

Author: Pan, Miin-Jeng; Chang, Shi-Kuo; Yang, Chien-Chiao

Corporate Source: Natl Taiwan Inst of Technology, Taiwan

Conference Title: Proceedings of the Third Workshop on Future Trends of Distributed Computing Systems

Conference Location: Taipei, Taiwan Conference Date: 19910414

Sponsor: IEEE

E.I. Conference No.: 17752

Source: Proceedings of the Third Workshop on Future Trends of Distributed Computing Systems Proc Third Workshop Future Trends Distrib Comput Syst 1992. Publ by IEEE, Computer Society, Los Alamitos, CA, USA. p 318-324

Publication Year: 1992

ISBN: 0-8186-2755-7

Language: English

Document Type: CA; (Conference Article) Treatment: T; (Theoretical)

Journal Announcement: 9306W3

Abstract: A multidatabase system (MDBS) is a system that integrates the operational data of **several** autonomous **database** systems and provide a uniform interface and control mechanisms to control access to those data. To efficiently retrieve and manipulate the data stored in MDBS, a metadata dictionary is needed as a repository of essential information for reasoning, controlling, and maintaining the retrieval/manipulation processes. In this paper we developed a two-level active metadata dictionary approach based on logic for building a metadata dictionary, query processing, and maintenance in MDBS. The **low - level** metadata dictionaries (LLMDs) keep metadata for each corresponding local database in MDBS, respectively. The **high - level** metadata dictionary (HLMD) integrates the metadata about all LLMDs. The evaluation strategy is a top-down approach, start with consideration of a query as a global goal to be achieved. Unify the query with rules successively to decompose the goal into subgoals which can be evaluated against extensional database. Then **translate** these subgoals into corresponding queries against underlying DBMSs, respectively. The database integration strategy includes two phases: schema **translation** and schema integration. It is a bottom-up approach integrating schema from the underlying database schemas. Update may cause inconsistencies in MDBS. We use incremental integrity constraint checking to **preserve** consistency. The semantic **query** optimization evaluation can be partitioned into two phases: compilation phase and evaluation phase. During the compilation phase residues are computed and associated with deductive rules through partial subsumption algorithm. In evaluation phase, redundant residues are eliminated and then **translate** it into query against underlying DBMS. (Author abstract) Refs.

Descriptors: *Distributed database systems; Algorithms

Identifiers: Query processing; Dictionaries; Semantic query processing; Multidatabase systems; Metadata dictionaries; Integrity constraint checking ; Query optimization

Classification Codes:

723.3 (Database Systems); 723.1 (Computer Programming)

723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING)

19/5/16 (Item 16 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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00817372 E.I. Monthly No: EI7905031584 E.I. Yearly No: EI79016940
Title: CONVERSION OF HIGH - LEVEL SUBLANGUAGE QUERIES TO ACCOUNT
FOR DATABASE CHANGES.

Author: Su, Stanley Y. W.; Reynolds, Michael J.
Corporate Source: Univ of Fla, Gainesville
Source: AFIPS Conference Proceedings v 47, Anaheim, Calif, Jun 5-8 1978.
Publ by AFIPS, Montvale, NJ, 1978 p 857-875
Publication Year: 1978
CODEN: AFPGBT ISSN: 0095-6880
Language: ENGLISH
Journal Announcement: 7905

Abstract: The objectives of this investigation are as follows: (1) To study the effects of all the **CONVERT** operators, (2) to design the algorithms for collecting data from the input source to construct the data tables to form the **translation** dictionary, (3) to study the techniques for analyzing a limited yet general SEQUEL query pattern, and (4) to design a **translation** algorithm in detail (i. e. , to the level of algorithm description which is one step short of the actual coding) to support the analysis and **translation** of queries. A description is given of **several** types of **database** changes and illustration of the problems of sublanguage query **conversion** with examples which involve the use of **CONVERT** operators and SEQUEL's basic mappings. A **translation** process is then detailed and an example of query **conversion** is provided to clarify and illustrate the **translation** process step-by-step. 29 refs.

Descriptors: *COMPUTER PROGRAMMING LANGUAGES; DATA BASE SYSTEMS

Classification Codes:

723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING)

19/5/19 (Item 3 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01665068 ORDER NO: AADMQ-30577

KNOWLEDGE DISCOVERY IN INTERNET DATABASES

Author: YU, XIAOBO

Degree: M.SC.

Year: 1998

Corporate Source/Institution: THE UNIVERSITY OF REGINA (CANADA) (0148)

Adviser: H. HAMILTON

Source: VOLUME 37/01 of MASTERS ABSTRACTS.

PAGE 9. 106 PAGES

Descriptors: INFORMATION SCIENCE

Descriptor Codes: 0723

ISBN: 0-612-30577-5

A major objective in knowledge discovery in Internet database research is to support exploration and analysis of large amounts of data from **several databases**, each available via the Internet. This thesis describes an approach to achieving this objective based on a multidatabase. The multidatabase system provides a single front-end for **several** autonomous, heterogeneous **database** management systems.

A prototype software system, called KDID, has been developed to perform discovery tasks on Internet databases. A discovery task is decomposed into parameter for the task and a global **database query**. The global **query** is **translated** and decomposed into a set of local **database queries**, which are sent to Internet databases by database agents. KDID standardizes and accumulates the results of the local **queries** in a single **database** called the multidatabase. Knowledge discovery is then performed on the retrieved data by a discovery tool, DB-Discover, which performs **high level**, dynamic summarization and generalization of large amounts of data.

The approach is based on a global schema, which describes some related data. The correspondence between this global schema and the individual databases is maintained in a central registry. A registration subsystem is included in KDID to register Internet databases. The subsystem interacts with database administrators to obtain database schemas and integrate them with the global schema.

19/5/27 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS
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2227484 NTIS Accession Number: PB2002-103674/XAB

Role of High - Level and Low - level Features in Semi-Automated Retrieval and Generation of Multimedia Presentations. Information Systems

Nack, F. M. ; Windhouwer, M. A. ; Pauwels, E. J. ; Huijberts, M. W. J. H. ; Hardman, H. L.

Centrum voor Wiskunde en Informatica, Amsterdam (Netherlands).

Corp. Source Codes: 093021000

Report No.: INS-R0108

c30 Jun 2001 CD-ROM

Languages: English

Journal Announcement: USGRDR0210

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NTIS Prices: AV A03

Country of Publication: Netherlands

In this article we argue that for the automatic generation of adaptive multimedia presentations we are in need of expandable, adaptable style descriptions which provide both **high - level** conceptual and **low - level** feature extraction information. Only the combination of both facilitates the retrieval of adequate material and its user-centered presentation. We discuss the requirements for an adaptable Web-based environment for museums presenting visual artifacts. We then present the framework of our prototype **multimedia** generation environment which **transforms** a **high - level** user **query** into a concrete **multimedia** final-form encoding that is playable on an end-users' platform. We describe the underlying architecture and provide a working example.

Descriptors: *Multimedia retrieval; Architecture; Extraction information; Semantics

Identifiers: *Multimedia presentations; *Style descriptions; Presentation generation; Feature grammars; NTISTFNPO

Section Headings: 62GE (Computers, Control, and Information Theory--General)

Set	Items	Description
S1	1731977	SEARCH? OR QUERY OR QUERIES OR MATCH? OR SEEK? OR LOCATE? - OR LOCATING
S2	15399	S1(8N) (MULTIMEDIA? OR MULTI()MEDIA? OR MOVING() (PICTURE? OR IMAGE?) OR MPEG? OR MPG? OR WAV OR VIDEO? OR AUDIO? OR SOUND- ?)
S3	168455	(LOW OR HIGH) ()LEVEL? OR HIGHLEVEL? OR LOWLEVEL?
S4	898202	TRANSLAT? OR TRANSFORM? OR REFORMAT? OR CONVERT? OR CONVER- SION? OR COMPILE?
S5	29805	(MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR MANY OR SEVERAL OR DIFFERENT?) (3N) (DATABASE? OR ENGINE? OR SEARCHENG- INE? OR DB OR RDB OR DATA() (BANK? OR BASE?))
S6	27444	(LIBRAR? OR COLLECTION? OR GROUP? OR CLUSTER?) (3N) (MODULE? OR CONSTRAINT? OR CONSTRUCT? OR TEMPLATE? OR CONCEPT?)
S7	8098	(SAVE? OR CACHE? OR PRESERV? OR DATABASE? OR DATABANK? OR - DB OR DATA() (BASE? OR BANK?)) (3N) (QUERY OR QUERIES OR SEARCH(-) (STRING? OR STATEMENT? OR STEP OR STEPS))
S8	60	S2(S)S3(S)S4
S9	20	S8(S) (S6 OR S5 OR S7)
S10	85	S3(S)S4(S)S5(S)S6
S11	15	S10(S)S7
S12	31	S9 OR S11
S13	20	S12 AND IC=G06F?
S14	20	IDPAT (sorted in duplicate/non-duplicate order)
S15	20	IDPAT (primary/non-duplicate records only)

File 348:EUROPEAN PATENTS 1978-2004/Dec W03
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File 349:PCT FULLTEXT 1979-2002/UB=20041230,UT=20041223
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15/3,K/4 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01024634 **Image available**

SYSTEM AND METHOD FOR MULTIMEDIA AUTHORIZING AND PLAYBACK
SYSTEME ET PROCEDE DE CREATION DE DIDACTICIELS MULTIMEDIA ET DE LECTURE

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200354687 A1 20030703 (WO 0354687)

Application: WO 2002US40623 20021218 (PCT/WO US0240623)

Priority Application: WO 2001US50458 20011219; US 200127430 20011219

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ

EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR

LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK

SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SI SK
TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 102575

Main International Patent Class: G06F-003/14

Fulltext Availability:

Detailed Description

Detailed Description

... used in conjunction with HTML in Web applications and by proprietary
scripting languages built into **many** high-end authoring systems (such as
Macromedia Flash (V MX)).

Scripting methods operate at their...Wide Web allows separate pieces of
multimedia content located on different computers and authored by
different people to be connected together by including within one piece
of multimedia content a reference...may also be effective. With the soft
oval effect enabled, once the picture or recorded **video** is accepted by
the user, the media data of the newly created object (302, ...authors
great flexibility for arranging object playback in time, providing
significant advantages over the timeline- **based** authoring paradigm of
many existing systems.

Fifth, for each function of the sentence paradigm which includes both a
triggering...within the overall framework of network-based operations
shown here in Figures 3 1A-B. **Several** features discussed throughout
this specification may be used to such effect, and in some cases...
various links among the database objects (indicated by the link lines
4604) result in the **different databases** being presented to the user
as a single virtual hierarchy "rooted" at the container object...

15/3,K/14 (Item 14 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00784131

A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A MULTI-OBJECT FETCH
COMPONENT IN AN INFORMATION SERVICES PATTERNS ENVIRONMENT
SYSTEME, PROCEDE ET ARTICLE MANUFACTURE POUR COMPOSANT DE RECUPERATION
MULTI-OBJET DANS UN ENVIRONNEMENT CARACTERISE PAR DES SERVICES
D'INFORMATIONS

Patent Applicant/Assignee:

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2029 Century Park East, Los Angeles, CA 90067, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200116723 A2-A3 20010308 (WO 0116723)

Application: WO 2000US24083 20000831 (PCT/WO US0024083)

Priority Application: US 99386238 19990831

Designated States:

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prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GE
GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN
YU ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 150940

Main International Patent Class: G06F-009/44

International Patent Class: G06F-009/46

15/3,K/16 (Item 16 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00784125

SYSTEM, METHOD, AND ARTICLE OF MANUFACTURE FOR PIECEMEAL RETRIEVAL IN AN
INFORMATION SERVICES PATTERNS ENVIRONMENT
SYSTEME, PROCEDE ET ARTICLE DE FABRICATION DESTINES A LA RECHERCHE
FRAGMENTAIRE DANS UN ENVIRONNEMENT DE MODELES DE SERVICES
D'INFORMATIONS

Patent Applicant/Assignee:

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Inventor(s):

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2029 Century Park East, Los Angeles, CA 90067-3024, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200116705 A2-A3 20010308 (WO 0116705)

Application: WO 2000US24085 20000831 (PCT/WO US0024085)

Priority Application: US 99386433 19990831

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 150355

Main International Patent Class: G06F-009/44

Fulltext Availability:

Detailed Description

Detailed Description

... server publicly announcing its interfaces; Figure 75 illustrates a
method including the registering and then **locating** of a globally
addressable interface;

9

Figure 76 illustrates the present invention using a method...D virtual
reality, video and other multimedia content. The tools use Internet
standards, work on **multiple** platforms, and are being supported by over
I 00 companies. The group's building blocks...

...architecture continues to grow and evolve. Engineering discoveries move
the field forward. Certain design and **engineering** principles clearly
show themselves to be successful in practice, and these then become
repeatable components...buffer types: view to pass C structs, FML to pass
anything, carrays to

pass binary (**sound** , **video**), strings to pass strings

FML allows dynamic messages to be sent/received

Automatic error logging...information can be stored in the profile file
for flexibility. In the future, if the **database** server name should

change, this change only needs to be entered in the applications profile

...reports without the requirement of manual or user intervention

(subsequent to initial set up and **conversion**).

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. Scheduled Reports: The report architecture must support distribution of
regularly scheduled reports. Typically, these...

...these reports without the requirement of manual or user intervention (subsequent to set up and **conversion**).

5. Online Preview: The report architecture should allow preview of reports online from a user...compression in the repository.

6. Code Page Compatibility: Code page compatibility must be considered when **translating** characters to ASCH.

Workflow services control and coordinate the tasks that must be completed in...

...PC to mainframe

The ability to interface with the host-based hardware, system software, and **database** management systems is critical. This is essential because the workflow system is located between the...of Capability Release Design and into Capability Release Build and Test 3610, Business Components are **transformed** into Partitioned Business Components based on the realities of the technical environment. These constraints...the requirements.

It would be logical to conclude that the two types of Business Components **translate** to two types of Partitioned Business Components, but a small adjustment is required. Entity-centric Business Components **translate** directly to Business Entity Components, but a closer look at the ways in which a...

Set	Items	Description
S1	1083454	SEARCH? OR QUERY OR QUERIES OR MATCH? OR SEEK? OR LOCATE? - OR LOCATING
S2	11323	S1(8N) (MULTIMEDIA? OR MULTI()MEDIA? OR MOVING() (PICTURE? OR IMAGE?) OR MPEG? OR MPG? OR WAV OR VIDEO? OR AUDIO? OR SOUND- ?)
S3	80547	(LOW OR HIGH) ()LEVEL? OR HIGHLEVEL? OR LOWLEVEL?
S4	1384422	TRANSLAT? OR TRANSFORM? OR REFORMAT? OR CONVERT? OR CONVER- SION? OR COMPILE?
S5	13192	(MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR MANY OR SEVERAL OR DIFFERENT?) (3N) (DATABASE? OR ENGINE? OR SEARCHENG- INE? OR DB OR RDB OR DATA() (BANK? OR BASE?))
S6	6320	(LIBRAR? OR COLLECTION? OR GROUP? OR CLUSTER?) (3N) (MODULE? OR CONSTRAINT? OR CONSTRUCT? OR TEMPLATE? OR CONCEPT?)
S7	1679	(SAVE? OR CACHE? OR PRESERV? OR DATABASE? OR DATABANK? OR - DB OR DATA() (BASE? OR BANK?)) (3N) (QUERY OR QUERIES OR SEARCH(-) (STRING? OR STATEMENT? OR STEP OR STEPS))
S8	11	S2 AND S3 AND S4
S9	2	S2 AND S4 AND S5
S10	0	S2 AND S6 AND S7
S11	3	S2 AND S6
S12	47	S2 AND S7
S13	46	S1 AND S6 AND S7
S14	1	S13 AND S5
S15	109	S8:S14
S16	12	S15 AND IC=G06F-007/00
S17	55	S15 AND IC=G06F?
S18	32	S17 NOT AD=20010809:20030809
S19	32	S18 NOT AD=20030809:20050109
S20	32	IDPAT (sorted in duplicate/non-duplicate order)
S21	32	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)

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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200482

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21/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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016672128 **Image available**
WPI Acc No: 2004-830848/200482
XRPX Acc No: N04-656285

**Collateral information provision method for video/ audio stream,
involves generating database queries from events derived from
information stream, and analyzing query results for insertion in stream**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: BROWN E W; CODEN A R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6816858	B1	20041109	US 2000193910	P	20000331	200482 B
			US 2000218966	P	20000717	
			US 2000698894	A	20001027	

Priority Applications (No Type Date): US 2000698894 A 20001027; US
2000193910 P 20000331; US 2000218966 P 20000717

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6816858	B1	20	G06F-017/30		Provisional application US 2000193910 Provisional application US 2000218966

Abstract (Basic): US 6816858 B1

NOVELTY - The method involves searching a database to identify set of documents that correspond to identified topic of text extracted from information stream, and documents that correspond to words found in the text. The documents are scored based on preset criteria, and ranked based on scores. The **database queries** are generated from events derived from stream, and results are analyzed for insertion in stream.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) system for providing collateral information; and
- (2) computer readable medium storing program for providing collateral information.

USE - For providing collateral information for video/audio stream such as news broadcast, live or recorded coverage of meeting or assembly.

ADVANTAGE - Allows to add relevant collateral information to information stream.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the Watson automatic stream analysis for broadcast information (WASABI) system.

WASABI system (10)
pp; 20 DwgNo 1/11

Title Terms: INFORMATION; PROVISION; METHOD; VIDEO; AUDIO; STREAM; GENERATE
; DATABASE; QUERY; EVENT; DERIVATIVE; INFORMATION; STREAM; QUERY; RESULT;
INSERT; STREAM

Derwent Class: T01; W01; W02

International Patent Class (Main): G06F-017/30

File Segment: EPI

21/5/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015789217 **Image available**
WPI Acc No: 2003-851420/200379
Related WPI Acc No: 2003-832249
XRPX Acc No: N03-679944

Database searching method involves arranging initial object attribute set received in response to initial query in sequence and merging additional attribute set received in response to subsequent query with initial ordered set

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: DE JUDICIBUS D
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6651054	B1	20031118	US 2000696881	A	20001026	200379 B

Priority Applications (No Type Date): GB 9925741 A 19991030

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6651054	B1	14	G06F-017/30	

Abstract (Basic): US 6651054 B1

NOVELTY - An initial set of objects having attributes satisfying an initial **query** submitted on a **database** is received, and ordered into a sequence for presenting to a user through an interface. A subsequent query providing different predicates than used in the initial query is submitted at a query point, and the corresponding additional object set is received to merge with the initial object set at the query point.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) database searching system; and
- (2) database searching program.

USE - For interacting with a database containing **multimedia** data report to refine **database query**.

ADVANTAGE - Enables a user to locally move around a specific object in a multi attribute type database space, according to one or more selected conditions and provides fine tuned result obtained in a report.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of a database report interacting system.

user input (38)
natural language interface (40)
result merger object (42)
renderer (44)
navigator (46)
structured query language (SQL) generator (56)
pp; 14 DwgNo 3/10

Title Terms: DATABASE; SEARCH; METHOD; ARRANGE; INITIAL; OBJECT; ATTRIBUTE;
SET; RECEIVE; RESPOND; INITIAL; QUERY; SEQUENCE; MERGE; ADD; ATTRIBUTE;
SET; RECEIVE; RESPOND; SUBSEQUENT; QUERY; INITIAL; ORDER; SET

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

21/5/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014704069 **Image available**
WPI Acc No: 2002-524773/200256
XRPX Acc No: N02-415630

Multimedia information retrieval device searches multimedia
information based on result of similarity evaluation of search string
with multimedia information

Patent Assignee: CANON KK (CANO)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002175329	A	20020621	JP 2000373242	A	20001207	200256 B

Priority Applications (No Type Date): JP 2000373242 A 20001207

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002175329	A		23	G06F-017/30	

Abstract (Basic): JP 2002175329 A

NOVELTY - A search unit searches the multimedia information in
a database using a search string based on result of similarity
evaluation of the search string with the multimedia information.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
following:

- (1) Information retrieval method; and
- (2) Computer readable storage medium storing information retrieval
program.

USE - For retrieval of multimedia information.

ADVANTAGE - The suitable multimedia information is retrieved
according to the search requisition designed by the operator.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart
illustrating the document search process. (Drawing includes non-English
language text).

pp; 23 DwgNo 9/15

Title Terms: INFORMATION; RETRIEVAL; DEVICE; SEARCH; INFORMATION; BASED;
RESULT; SIMILAR; EVALUATE; SEARCH; STRING; INFORMATION

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

21/5/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014368397 **Image available**
WPI Acc No: 2002-189099/200225
XRPX Acc No: N02-143251

Query preparation and rendering for procuring information from
multimedia databases involves searching information from database
through query that is based on descriptor of digitized data

Patent Assignee: RUGE I (RUGE-I)
Inventor: HERRMANN S; RUGE I; STECHELE W
Number of Countries: 001 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 10011297	A1	20010927	DE 1011297	A	20000308	200225 B
DE 10011297	C2	20020307	DE 1011297	A	20000308	200225

Priority Applications (No Type Date): DE 1011297 A 20000308
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 10011297	A1		10	G06F-017/30	
DE 10011297	C2			G06F-017/30	

Abstract (Basic): DE 10011297 A1

NOVELTY - Either or both video and audio data are digitized and their characteristics extracted using a suitable analysis algorithm to obtain at least one descriptor which is sent to a database. The database is searched for information through an query based on the descriptor.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an electronic storage medium containing program code for performing the method.

USE - For procuring multimedia information from databases e.g. tourist information, holiday photos, medical expert systems, and person identification for crime investigation.

ADVANTAGE - Enables preparation of query in comfortable and efficient manner for use by formulating textual description for user and directly sends textual description to database, eliminating need for user to identify for himself object features and properties and enabling more complex properties and features of object to be characterized.

DESCRIPTION OF DRAWING(S) - The figure is the flowchart of the inquiry preparation and rendering method. (Drawing includes non-English language text).

pp; 10 DwgNo 1/1

Title Terms: QUERY; PREPARATION; RENDER; INFORMATION; SEARCH; INFORMATION;
DATABASE; THROUGH; QUERY; BASED; DESCRIBE; DATA

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

21/5/10 (Item 10 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014309285 **Image available**
WPI Acc No: 2002-129988/200217
XRPX Acc No: N02-098041

**Data search and retrieval method for flexible image database system,
involves pruning each triangle related to selected distance measure,
between each key object and query object**

Patent Assignee: BERMAN A P (BERM-I)

Inventor: BERMAN A P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020002550	A1	20020103	US 2000181607	P	20000210	200217 B
			US 2001779019	A	20010207	

Priority Applications (No Type Date): US 2000181607 P 20000210; US
2001779019 A 20010207

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020002550	A1		26	G06F-007/00	Provisional application US 2000181607

Abstract (Basic): US 20020002550 A1

NOVELTY - A relational vector that represents a distance measure between each key object and selected query object, is determined by an user. Each triangle related to the selected distance measure, is pruned so that the data object which do not match the query object within a defined limit, are removed. The data objects that are not removed, are compared with query data object within defined limit.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following

(a) Article of manufacture for use with computer, to identify data objects that match with query data object;

(b) Image data search and retrieval system;

(c) Method for reducing number of direct comparisons required to identify matching data object

USE - For **search** and retrieval of data objects such as image, **sound**, video, multimedia, text, spread-sheets etc in flexible image database system.

ADVANTAGE - Increases efficiency in large database environments and reduces number of direct comparisons required to identify data objects that match a query object. Exhibits speed, flexibility and accuracy in implementing a **query** of **database** and also improves computational efficiency.

DESCRIPTION OF DRAWING(S) - The figure shows a graphical illustration of two levels of a triangle.

pp; 26 DwgNo 1/11

Title Terms: DATA; SEARCH; RETRIEVAL; METHOD; FLEXIBLE; IMAGE; DATABASE; SYSTEM; PRUNE; TRIANGLE; RELATED; SELECT; DISTANCE; MEASURE; KEY; OBJECT; QUERY; OBJECT

Derwent Class: T01

International Patent Class (Main): G06F-007/00

File Segment: EPI

21/5/12 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014111293 **Image available**
WPI Acc No: 2001-595505/200167
Related WPI Acc No: 1999-610501
XRPX Acc No: N01-443792

**Database information categorization using intelligent query engine,
involves displaying information clustered around central concepts in
vector spaces**

Patent Assignee: WEBMD CORP (WEBM-N)
Inventor: BURKE S M; HAZLEHURST B L; NYBAKKEN K E
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6289353	B1	20010911	US 97936354	A	19970924	200167 B
			US 99329657	A	19990610	

Priority Applications (No Type Date): US 97936354 A 19970924; US 99329657 A
19990610

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6289353	B1	41	G06F-017/00		Cont of application US 97936354 Cont of patent US 5974412

Abstract (Basic): US 6289353 B1

NOVELTY - Information is converted into different vector spaces and central concepts are identified in the vector spaces. Information **clustered** around the identified **concepts** are displayed to a user through a graphical user interface.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) Information retrieval and categorization system;
 - (b) **Search** engine for identifying information responsive to user **queries** ;
 - (c) Method for categorizing user in an information retrieval system
- USE - For categorizing information in **database** through intelligent **query** engine, for use by medical and other domain experts.

ADVANTAGE - Automatically indexes large quantities of documents and facilitates implementation of a highly distributed system of asynchronously communicating liaisons and collators.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of processing **queries** by a collator.

pp; 41 DwgNo 15B/25

Title Terms: DATABASE; INFORMATION; INTELLIGENCE; **QUERY** ; ENGINE; DISPLAY;
INFORMATION; CLUSTER; CENTRAL; CONCEPT; VECTOR; SPACE

Derwent Class: T01

International Patent Class (Main): **G06F-017/00**

File Segment: EPI

21/5/14 (Item 14 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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013997839

WPI Acc No: 2001-482054/200152

XRPX Acc No: N01-356762

Query **theme identification** in database library, involves determining composite theme scores of data records which are compared with threshold, to select query theme associated with search query

Patent Assignee: BIGCHALK.COM INC (BIGC-N)

Inventor: SCHULTZ J M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6208988	B1	20010327	US 9888188	A	19980601	200152 B

Priority Applications (No Type Date): US 9888188 A 19980601

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6208988	B1		20	G06F-017/21	

Abstract (Basic): US 6208988 B1

NOVELTY - An archive has document record with metadata field to store numerical score representing correlation degree between stored document and document theme. Composite theme score is estimated for each document theme in document records in result list. Composite theme scores are compared with threshold to identify major theme score and the associated document theme is selected as query theme.

DETAILED DESCRIPTION - Each of the document records are associated with stored document. The numerical score represents a degree of correlation between stored document and a document theme. The document theme corresponds to subject, person or place associated with stored document. A result list formed of one's of the document record, is retrieved in response to search query. The document records in the result list is associated with search query.

USE - For identifying documents and themes such as person, place, subject, corresponding to search topic or **query** . For identifying and retrieving text and **multimedia** files related to **search** topic from database library.

ADVANTAGE - Provides a document searching system which not only returns a list of relevant information to the user based on query search, but also returns the information to user in such a form that the user can readily identify which information returned from search is most relevant to query topic.

pp; 20 DwgNo 0/6

Title Terms: QUERY; THEME; IDENTIFY; DATABASE; LIBRARY; DETERMINE;
COMPOSITE; THEME; SCORE; DATA; RECORD; COMPARE; THRESHOLD; SELECT; QUERY;
THEME; ASSOCIATE; SEARCH; QUERY

Derwent Class: T01

International Patent Class (Main): G06F-017/21

File Segment: EPI

21/5/16 (Item 16 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013912793 **Image available**
WPI Acc No: 2001-397006/200142
XRPX Acc No: N01-292512

Audio data feature description method involves representing audio features hierarchically by setting audio program

Patent Assignee: DAINI DENDEN KK (DAIN-N); KATO H (KATO-I); NAKAJIMA Y (NAKA-I); SUGANO M (SUGA-I); YANAGIHARA H (YANA-I); YONEYAMA A (YONE-I)
Inventor: KATO H; NAKAJIMA Y; SUGANO M; YANAGIHARA H; YONEYAMA A
Number of Countries: 002 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20010003813	A1	20010614	US 2000730607	A	20001207	200142	B
JP 2001167557	A	20010622	JP 99349147	A	19991208	200151	
JP 2001167109	A	20010622	JP 99349148	A	19991208	200151	

Priority Applications (No Type Date): JP 99349148 A 19991208; JP 99349147 A 19991208

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20010003813	A1		24	G10L-019/00	
JP 2001167557	A		10	G11B-027/00	
JP 2001167109	A		13	G06F-017/30	

Abstract (Basic): US 20010003813 A1

NOVELTY - The audio features are hierarchically represented by setting the audio program (a) and are described in sequence from highest hierarchy to the lowest hierarchy. The entire audio data constructs one audio program which includes the audio features such as audio scene or audio shot.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for compressed or uncompressed audio video data feature description collection construction method.

USE - For describing the features of compressed and uncompressed audio data.

ADVANTAGE - The audio data in the audio program is efficiently searched with high speed based on the hierarchical order of audio features of audio program. The audio video features are collected efficiently for multiple audio video programs according to the specific feature describing the feature description collection.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of compressed and uncompressed audio data features description.

Audio program (a)
pp; 24 DwgNo 1/22

Title Terms: AUDIO; DATA; FEATURE; DESCRIBE; METHOD; REPRESENT; AUDIO; FEATURE; HIERARCHY; SET; AUDIO; PROGRAM

Derwent Class: P86; T01; W04

International Patent Class (Main): G06F-017/30 ; G10L-019/00; G11B-027/00

International Patent Class (Additional): G10L-013/00; G10L-021/06;

G11B-020/12; G11B-027/10

File Segment: EPI; EngPI

21/5/22 (Item 22 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012470471 **Image available**
WPI Acc No: 1999-276579/199923
XRPX Acc No: N99-207323

Computer program product for retrieving multimedia objects such as still image, audio, video graphics etc using natural language such as English - stores program based on which agent role, action role and patient role are assigned corresponding to recognised syntactic and semantic structure of received query, to permit search of database

Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: BHANDARI A; JANISZEWSKI M E; MEHROTRA R
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5895464	A	19990420	US 97848207	A	19970430	199923 B

Priority Applications (No Type Date): US 97848207 A 19970430

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5895464	A		12	G06F-017/30	

Abstract (Basic): US 5895464 A

NOVELTY - Based on recognition of syntactic and semantic structure of received query, agent role that indicates an actor role who is performing action, an action role that identifies activity and patient role that identifies object affected by the action are assigned for permitting **searching** of multimedia object **database** to generate **query** response. DETAILED DESCRIPTION - In computer readable storage medium, program for retrieving **multimedia** objects is stored. Based on the stored program **query** in natural language for searching database is received and syntactic and semantic structure of query is recognized. Magnetic storage medium such as floppy disc or magnetic tape, or optical storage medium such as optical disc, optical tape or RAM or ROM, is used as storage medium. An INDEPENDENT CLAIM is included for describing retrieval method of multimedia object using natural language.

USE - For retrieving multimedia objects such as still image, audio, video graphics, computer generated graphics, drawings and associated description using natural language such as English. The computer program product uses text input for speech input or input from communication or multimedia capture storage devices such as still camera, video camera and video phone.

ADVANTAGE - Provides archival and retrieval system free of grammar restrictions so that syntactic and semantic formalities in search query are recognized and utilized by simple technique. Offers efficient and user-friendly system for input of information into database by requiring minimal interaction from user. DESCRIPTION OF DRAWING(S) - The figure depicts flow chart of software program for input of data using natural language.

Dwg.4/6

Title Terms: COMPUTER; PROGRAM; PRODUCT; RETRIEVAL; OBJECT; STILL; IMAGE; AUDIO; VIDEO; GRAPHIC; NATURAL; LANGUAGE; ENGLISH; STORAGE; PROGRAM; BASED; AGENT; ROLE; ACTION; ROLE; PATIENT; ROLE; ASSIGN; CORRESPOND; RECOGNISE; SYNTACTIC; STRUCTURE; RECEIVE; QUERY; PERMIT; SEARCH; DATABASE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

21/5/23 (Item 23 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012448060 **Image available**
WPI Acc No: 1999-254168/199921
XRPX Acc No: N99-189251

Method for constructing database query from intuitive browser driven user interface

Patent Assignee: SILICON GRAPHICS INC (SILI-N)
Inventor: MALLEY C V; POON A D; WEBER K A
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5893110	A	19990406	US 96698649	A	19960816	199921 B

Priority Applications (No Type Date): US 96698649 A 19960816

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5893110	A	11	G06F-017/30	

Abstract (Basic): US 5893110 A

NOVELTY - A **database query** is generated automatically based on the available data components associated with the contents of particular point of interest. The user has the option to constrain the database search by selecting one or more attributes from the available list and further by adding keywords to keyword entry field.

DETAILED DESCRIPTION - A list of available multimedia work is presented to the user for enabling the user to select a multimedia work from the available list. The selected multimedia work is made to run with the associated buttons provided. The selected multimedia work is stopped at a particular point of interest upon the input from user. A **database query** is generated automatically associated with the point of interest. The list of attributes are displayed by using icons wherein icons representing available data elements are highlighted and icons representing unavailable data elements are un-highlighted. The list of data elements are presented to the user in real time while selected multimedia work is running.

USE - For constructing **database query** from intuitive browser driven user interface for **multimedia** works comprising interactive movies, video games and other entertainment and educational type of content that run on personal computer system, dedicated game consoles and kiosk machines.

ADVANTAGE - Allows user to constrain database search by providing a list of attributes of data associated with the point of interest before the search is performed.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart explaining the method for constructing **database query** from an intuitive browser driven user interface.

pp; 11 DwgNo 3/4

Title Terms: METHOD; CONSTRUCTION; DATABASE; QUERY; DRIVE; USER; INTERFACE
Derwent Class: T01
International Patent Class (Main): G06F-017/30
File Segment: EPI

21/5/26 (Item 26 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011644977 **Image available**
WPI Acc No: 1998-061885/199806
XRPX Acc No: N98-048689

**Index of video data base and query method and system - includes
processor to build video clip index, transfer video query into
string and carry out video inquiry**

Patent Assignee: IND TECHNOLOGY RES INST (INTE-N)
Inventor: CHEN L; LIOU J; NI J; YANG S; YUH J
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
TW 316962	A	19971001	TW 96104458	A	19960412	199806 B

Priority Applications (No Type Date): TW 96104458 A 19960412

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
TW 316962	A	62	G06F-015/40	

Abstract (Basic): TW 316962 A

An index of **video data base** and **query** method which can find **video frame matched** with **query** condition from **video data base** involves initially verifying one or several icons of every frame in clip, and then deciding horizontal, vertical and time coordinates of one or several defined icon. An index is then built for each defined symbol of icon on the above coordinate.

A **video query** command is received from the user, and this command must point the related relation among horizontal, vertical and time coordinates of the icon appearing in inquired the video frame. A 3-D string of icons is indicated according to the **video query** command, with this 3-D string indicating the distance between every symbol of every icon on the horizontal, vertical and temporal coordinate; followed by comparing the characteristic of **query** command and **video clip** stored in **video data base** to find all **video clips** characteristic, which includes **video clip** of **query** command signature. A **video clip** is then found according to the comparison of the **query** command and the stored **video clip**, with building of the 1-D list of horizontal, vertical and temporal direction, this 1-D list including several symbols, which must be included in the query command signature, and each symbol in 1-D list must match the query condition in related direction. An intersection is taken from the 1-D list in the horizontal, vertical and temporal direction, and if the intersection is non-zero, then this video clip satisfies the inquiry condition.

Dwg.1/18

Title Terms: INDEX; VIDEO; DATA; BASE; QUERY; METHOD; SYSTEM; PROCESSOR;
BUILD; VIDEO; CLIP; INDEX; TRANSFER; VIDEO; QUERY; STRING; CARRY; VIDEO;
ENQUIRY

Derwent Class: T01

International Patent Class (Main): G06F-015/40

File Segment: EPI

21/5/29 (Item 29 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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009467368 **Image available**
WPI Acc No: 1993-160907/199320
XRPX Acc No: N93-123487

Information storage and access system using query language statements - translates compositional descriptions into database queries to enable information matching of compositional descriptions

Patent Assignee: AMERICAN TELEPHONE & TELEGRAPH CO (AMTT); AT & T CORP (AMTT)

Inventor: BORGIDA A T; BRACHMAN R J

Number of Countries: 006 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 542430	A2	19930519	EP 92309447	A	19921016	199320 B
CA 2079285	A	19930424	CA 2079285	A	19920928	199327
EP 542430	A3	19930825	EP 92309447	A	19921016	199508
US 5418943	A	19950523	US 91781464	A	19911023	199526

Priority Applications (No Type Date): US 91781464 A 19911023

Cited Patents: No-SR.Pub; 3.Jnl.Ref

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 542430	A2	E	16	G06F-015/403	
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Designated States (Regional): DE FR GB IT

US 5418943	A	15	G06F-015/40
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CA 2079285	A		G06F-015/403
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EP 542430	A3		G06F-015/403
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Abstract (Basic): EP 542430 A

The storage and access system employs compositional descriptions (103) which describe information in terms of concepts. A translation component (117) translates compositional descriptions into **data base queries** so that information **matching** a compositional description may be retrieved from the data base.

The translation component further permits display of the retrieved data in terms of the compositional descriptions. The returned information can be automatically integrated into a knowledge base (107), either item by item or on the basis of the compositional description which was used to return the information.

USE/ADVANTAGE - Database management systems. Provides improved access to stored information.

Dwg.1/10

Title Terms: INFORMATION; STORAGE; ACCESS; SYSTEM; **QUERY** ; LANGUAGE; STATEMENT; TRANSLATION; COMPOSITION; DESCRIBE; DATABASE; **QUERY** ; ENABLE; INFORMATION; **MATCH** ; COMPOSITION; DESCRIBE

Derwent Class: T01

International Patent Class (Main): **G06F-015/403**

International Patent Class (Additional): **G06F-015/40**

File Segment: EPI

Set	Items	Description
S1	2753	AU=(CHANG Y? OR CHANG, Y?)
S2	3301	AU=(LI C? OR LI, C?)
S3	8	AU=(NATSEV A? OR NATSEV, A?)
S4	5001	AU=(SMITH J? OR SMITH, J?)
S5	1	S1 AND S2 AND S3 AND S4
S6	40	(S1 OR S2 OR S3 OR S4) AND IC=G06F-007/00
S7	12	S6 AND (LEVEL? OR MULTIMEDIA? OR MULTI()MEDIA? OR VIDEO? OR AUDIO? OR SOUND? OR MOVING()PICTURE?)
S8	12	IDPAT (sorted in duplicate/non-duplicate order)
S9	12	S5 OR S8

File 344:Chinese Patents Abs Aug 1985-2004/May
(c) 2004 European Patent Office

File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)
(c) 2004 JPO & JAPIO

File 348:EUROPEAN PATENTS 1978-2004/Dec W03
(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20041230,UT=20041223
(c) 2004 WIPO/Univentio

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200482
(c) 2004 Thomson Derwent

9/5/2 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00565094 **Image available**

IMAGE DESCRIPTION SYSTEM AND METHOD

SYSTEME ET PROCEDE DE DESCRIPTION D'IMAGES

Patent Applicant/Assignee:

THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK,
AT & T,
IBM,
EASTMAN KODAK,
PAEK Seungyup,
BENITEZ Ana,
CHANG Shih-Fu,
LI Chung-Sheng,
SMITH John R,
BERGMAN Lawrence D,
PURI Atul,
HUANG Qian,
JUDICE Charlie,

Inventor(s):

PAEK Seungyup,
BENITEZ Ana,
CHANG Shih-Fu,
LI Chung-Sheng ,
SMITH John R ,
BERGMAN Lawrence D,
PURI Atul,
HUANG Qian,
JUDICE Charlie

Patent and Priority Information (Country, Number, Date):

Patent: WO 200028467 A1 20000518 (WO 0028467)
Application: WO 99US26127 19991105 (PCT/WO US9926127)
Priority Application: US 98107463 19981106; US 99118020 19990201; US
99118027 19990201

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD
RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF
CG CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class: G06K-009/00

International Patent Class: G06K-009/34; G06K-009/46; G06K-009/56;
G06K-009/36; G06K-009/60; G06F-003/00; G09C-005/00; H04N-007/12;
G06F-007/00 ; G06F-015/00

Publication Language: English

Fulltext Availability:

Detailed Description
Claims

Fulltext Word Count: 15002

English Abstract

Systems and methods for describing image content establish image
description records which include an object set (24), an object hierarchy
(26) and entity relation graphs (28). For image content, image objects
can include global objects (00 8) and local objects (01 2 and 02 6). The
image objects are further defined by a number of features of different
classes (36, 38 and 40), which in turn are further defined by a number of
feature descriptors. The relationships between and among the objects in
the object set are defined by the object hierarchy (26) and entity
relation graphs (28). The image description records provide a standard
vehicle for describing the content and context of image information for
subsequent access and processing by computer applications such as search
engines, filters, and archive systems.

French Abstract

Selon cette invention, des systemes et des procedes de description du contenu d'une image etablissent des rapports de description d'images qui comprennent un ensemble d'objets (24), une hierarchie d'objets (26) et des graphes entite-relation (28). En ce qui concerne le contenu d'une image, les objets image peuvent comprendre des objets globaux (008) et des objets locaux (01 2 et 0 2 6). Les objets image sont en outre definis par un certain nombre de parametres de classes differentes (36, 38 et 40), lesdits parametres etant definis a leur tour par un certain nombre de descripteurs de parametres. Les relations entre les objets faisant partie d'un ensemble d'objets sont definies par la hierarchie (26) des objets et les graphes entite-relation (28). Les rapports de description d'images constituent un vehicule standard servant a la description du contenu et du contexte des informations image a des fins d'accès et de traitement ulterieur par des applications informatiques telles que les moteurs de recherche, les filtres et les systemes d'archivage.

9/5/3 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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016672184 **Image available**
WPI Acc No: 2004-830904/200482
XRPX Acc No: N04-656340

Precedence template descriptor generation method for classifying and
querying image/ video content, involves ordering content symbols based
on their relationships to each other in content and evaluating ordering
of content symbols

Patent Assignee: INT BUSINESS MACHINES CORP (IBM)
Inventor: LI C ; SMITH J R
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6819797	B1	20041116	US 99117906	P	19990129	200482 B
			US 2000493879	A	20000128	

Priority Applications (No Type Date): US 99117906 P 19990129; US 2000493879
A 20000128

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6819797	B1	11	G06K-009/00	Provisional application US 99117906	

Abstract (Basic): US 6819797 B1

NOVELTY - The content symbols are assigned to each media content
component. The content symbols are ordered based on their relationships
to each other in the media content. The media content are classified
based on the comparison of the content relationship values that are
assigned based on determined frequency, while evaluating the ordering
of content symbols.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
following:

- (1) system for providing descriptors for media content;
- (2) program storage device for storing descriptor generation
program; and
- (3) descriptor.

USE - For generating precedence template (PT) descriptor (claimed)
used in content-based query system for classifying or annotating and
querying image/ video content.

ADVANTAGE - Allows fast matching of images in graphical querying.
The PT descriptors provides a robust way to compare the spatial
arrangement of image regions/objects and to measure similarity in the
presence of insertions, deletions, substitutions, replications and
reallocations of events, actions, regions or object by capturing the
spatial and temporal relationships.

DESCRIPTION OF DRAWING(S) - The figure shows the explanatory view
of the generation of the PT descriptor matrix.

pp; 11 DwgNo 4/5

Title Terms: PRECEDE; TEMPLATE; DESCRIBE; GENERATE; METHOD; CLASSIFY; IMAGE
; VIDEO ; CONTENT; ORDER; CONTENT; SYMBOL; BASED; RELATED; CONTENT;
EVALUATE; ORDER; CONTENT; SYMBOL

Derwent Class: T01

International Patent Class (Main): G06K-009/00

International Patent Class (Additional): G06F-007/00 ; G06F-017/30;

G06K-009/34; G06K-009/54; G06K-009/60

File Segment: EPI

9/5/5 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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016320784 **Image available**
WPI Acc No: 2004-478679/200445
XRPX Acc No: N04-377375

Multimedia -content representation method involves identifying semantic
based on generic cues identified from extracted features of content,
based on which model for multimedia -content is generated

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: ADAMS H W; IYENGAR G; LIN C; NAPHADE M R; NETI C V; NOCK H J;
SMITH J R ; TSENG B L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040111432	A1	20040610	US 2002315334	A	20021210	200445 B

Priority Applications (No Type Date): US 2002315334 A 20021210

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20040111432	A1	12	G06F-017/00	

Abstract (Basic): US 20040111432 A1

NOVELTY - The features of the **multimedia** content containing
audio , visual and textual modalities are extracted, based on which one
or more generic cues are identified. A semantic is identified based on
a combination of the generic cues, and a model for the **multimedia**
content is generated based on the identified semantic.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
following:

(1) computer program product in computer readable medium for
representing **multimedia** content;

(2) **multimedia** -content representing apparatus;

(3) **multimedia** -content searching method; and

(4) computer program product in computer readable medium for
searching **multimedia** -content.

USE - For representing **multimedia** -content containing **audio** ,
visual and textual cues.

ADVANTAGE - Enables to automatically analyze **multimedia** -content
and represent in terms of high **level** semantics.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart explaining
the operation of generating semantic representation of **multimedia**
content.

pp; 12 DwgNo 4/7

Title Terms: CONTENT; REPRESENT; METHOD; IDENTIFY; BASED; CUE; IDENTIFY;
EXTRACT; FEATURE; CONTENT; BASED; MODEL; CONTENT; GENERATE

Derwent Class: T01

International Patent Class (Main): G06F-017/00

International Patent Class (Additional): G06F-007/00

File Segment: EPI

9/5/7 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015492422 **Image available**
WPI Acc No: 2003-554569/200352
XRPX Acc No: N03-440366

Multimedia content source description method for TV news application,
involves generating info pyramid representation of each modality and
annotations for each multimedia object, repeatedly until every terminal
node is processed

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: BERGMAN L D; KIM M Y Y; LI C ; MOHAN R; SMITH J R
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6564263	B1	20030513	US 98110902	P	19981204	200352 B
			US 99456031	A	19991203	

Priority Applications (No Type Date): US 98110902 P 19981204; US 99456031 A
19991203

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6564263	B1	32	G06F-007/00	Provisional application US 98110902

Abstract (Basic): US 6564263 B1

NOVELTY - A modality-fidelity dependency graph including a
description scheme, is generated for each terminal node of **multimedia**
content source after selecting target modalities and fidelities based
on distribution analysis. An info pyramid representation of each
modality and annotations for each object in **multimedia** content source
are generated repeatedly until every terminal node is processed.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for
multimedia content creation method.

USE - For describing **multimedia** content for web image search
engine, satellite image retrieval system, Television(TV) news
application.

ADVANTAGE - Describes effectively multiple modalities/multiple
fidelities nature of **multimedia** content, spatial and temporal
characteristics among multiple objects, and streams and aggregations of
multimedia objects.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram
illustrating description scheme for **multimedia** content description
framework.

pp; 32 DwgNo 3/19

Title Terms: CONTENT; SOURCE; DESCRIBE; METHOD; TELEVISION; NEWS; APPLY;
GENERATE; PYRAMID; REPRESENT; OBJECT; REPEAT; TERMINAL; NODE; PROCESS
Derwent Class: T01

International Patent Class (Main): G06F-007/00

International Patent Class (Additional): G06F-015/00; G06F-015/16;
G06F-017/30

File Segment: EPI

9/5/8 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015357591 **Image available**

WPI Acc No: 2003-418529/200339

XRPX Acc No: N03-333926

Multimedia data query method for application domain, involves
transferring low level queries to low level having search engines
which perform query of stored multimedia information using low level
queries

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: CHANG Y ; LI C ; NATSEV A I ; SMITH J R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030041047	A1	20030227	US 2001925397	A	20010809	200339 B

Priority Applications (No Type Date): US 2001925397.A 20010809

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030041047	A1	18	G06F-007/00	

Abstract (Basic): US 20030041047 A1

NOVELTY - A high **level** concept describing data to be retrieved,
is received from a user into an intermediate **level** . The high **level**
concept is translated into low **level** queries by using system
predefined high **level** concepts, in the intermediate **level** . The low
level queries are transferred to a low **level** having one or more
search engines that performs a query of the stored **multimedia**
information using the low **level** queries.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for
program storage device.

USE - For application domains.

ADVANTAGE - Enables high **level** querying of **multimedia** data by
imposing arbitrary domain specific constraints among **multimedia**
objects.

DESCRIPTION OF DRAWING(S) - The figure shows the overview of the
multimedia data query method.

pp; 18 DwgNo 1/6

Title Terms: DATA; QUERY; METHOD; APPLY; DOMAIN; TRANSFER; LOW; **LEVEL** ;
QUERY; LOW; **LEVEL** ; SEARCH; ENGINE; PERFORMANCE; QUERY; STORAGE;
INFORMATION; LOW; **LEVEL** ; QUERY

Derwent Class: T01

International Patent Class (Main): G06F-007/00

File Segment: EPI

9/5/9 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014821931 **Image available**
WPI Acc No: 2002-642637/200269
Related WPI Acc No: 2004-387423
XRPX Acc No: N02-507968

Data transmission control apparatus for environmental information gathering system, transmits prioritized physical parameter data to base station which provides progressive feedback corresponding to subsequent processing

Patent Assignee: INT BUSINESS MACHINES CORP (IBM)

Inventor: BERGMAN L D; CHANG Y ; LI C ; SMITH J R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020099689	A1	20020725	US 2001263026	P	20010119	200269 B
			US 2001263039	P	20010119	
			US 200247863	A	20020116	

Priority Applications (No Type Date): US 200247863 A 20020116; US

2001263026 P 20010119; US 2001263039 P 20010119

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020099689	A1	10	G06F-007/00	Provisional application US 2001263026

Provisional application US 2001263039

Abstract (Basic): US 20020099689 A1

NOVELTY - A progressive decision support module (204) directs a controller to obtain data defining physical parameters such as **sound**, temperature in an area of interest and assigns a transmission priority to the data. A transmitter (206) transmits a prioritized data to a base station (203) which provides progressive feedback to the decision module to adjust the priority corresponding to subsequent processing.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for data transmission control method.

USE - For transmission of physical parameter data such as **sound**, temperature, moisture, light sensed using data gathering satellite, weather station environmental satellite in distributed environmental information gathering system, for detecting environmental hazards e.g. forest fire.

ADVANTAGE - Enables decision maker to highly utilize the physical parameters by combined optimization of progressive data representation and transmission. Enables suitable selection of the physical parameters which provide most useful information with reduced measurement errors, thereby increasing accuracy.

DESCRIPTION OF DRAWING(S) - The figure shows the flow diagram illustrating the operation of decision support system.

Base station (203)

Progressive decision support module (204)

Transmitter (206)

pp; 10 DwgNo 2/4

Title Terms: DATA; TRANSMISSION; CONTROL; APPARATUS; ENVIRONMENT;

INFORMATION; GATHER; SYSTEM; TRANSMIT; PHYSICAL; PARAMETER; DATA; BASE; STATION; PROGRESS; FEEDBACK; CORRESPOND; SUBSEQUENT; PROCESS

Derwent Class: T01

International Patent Class (Main): G06F-007/00

File Segment: EPI

9/5/11 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013269730 **Image available**
WPI Acc No: 2000-441636/200038
Related WPI Acc No: 2000-376696; 2000-430880; 2000-686540
XRPX Acc No: N00-329584

**Image description system used for generating description record from
image information**

Patent Assignee: AT & T (AMTT); EASTMAN KODAK CO (EAST); IBM CORP (IBM
); UNIV COLUMBIA NEW YORK (UYCO)
Inventor: BENITEZ A; BERGMAN L D; CHANG S; HUANG Q; JUDICE C; LI C ; PAEK
S; PURI A; SMITH J R
Number of Countries: 091 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200028467	A1	20000518	WO 99US26127	A	19991105	200038 B
AU 200012434	A	20000529	AU 200012434	A	19991105	200041
EP 1125245	A1	20010822	EP 99971950	A	19991105	200149
			WO 99US26127	A	19991105	
JP 2002529863	W	20020910	WO 99US26127	A	19991105	200274
			JP 2000581582	A	19991105	

Priority Applications (No Type Date): US 99118027 P 19990201; US 98107463 P
19981106; US 99118020 P 19990201

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200028467	A1	E	79	G06K-009/00	
Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW					
AU 200012434	A			G06K-009/00	Based on patent WO 200028467
EP 1125245	A1	E		G06K-009/00	Based on patent WO 200028467
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
JP 2002529863	W		80	G06T-001/00	Based on patent WO 200028467

Abstract (Basic): WO 200028467 A1

NOVELTY - A computer processor generates a description record, including an image object description, image object hierarchy description, and an entity relation graph description, to represent content embedded within an image information. The computer processor is used to process the image information by performing an image object extraction processing to generate image object descriptions.

DETAILED DESCRIPTION - The computer processor is used to process the generated image object descriptions by object hierarchy construction and extraction processing to generate image object hierarchy descriptions. The generated image object descriptions are processed by entity relation graph generation processing in order to generate entity relation graph descriptions. INDEPENDENT CLAIMS are also included for the following:

(a) a method for generating a description record from image information;

(b) and a computer readable media.

USE - Used for generating description record from image information.

ADVANTAGE - Obtains an extensible, scalable description system for image content which satisfies the requirements of a certain proposed media standard such as MPEG 7 standard. Obtains an efficient content description scheme for generic **multimedia** information.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the image description system.

pp; 79 DwgNo 2/8

Title Terms: IMAGE; DESCRIBE; SYSTEM; GENERATE; DESCRIBE; RECORD; IMAGE;

INFORMATION

Derwent Class: P85; T01; W02; W04

International Patent Class (Main): G06K-009/00; G06T-001/00

International Patent Class (Additional): G06F-003/00; **G06F-007/00** ;

G06F-015/00; G06F-017/30; G06K-009/34; G06K-009/36; G06K-009/46;

G06K-009/56; G06K-009/60; G06T-007/00; G09C-005/00; H04N-005/92;

H04N-007/12; H04N-007/24

File Segment: EPI; EngPI

Set	Items	Description
S1	14742	AU=(CHANG Y? OR CHANG, Y?)
S2	26571	AU=(LI C? OR LI, C?)
S3	68	AU=(NATSEV A? OR NATSEV, A?)
S4	37901	AU=(SMITH J? OR SMITH, J?)
S5	5	S1 AND S2 AND S3 AND S4
S6	9172	(S1 OR S2 OR S3 OR S4)AND (LEVEL? OR MULTIMEDIA? OR MULTI(-)MEDIA? OR VIDEO? OR AUDIO? OR SOUND? OR MOVING() PICTURE?)
S7	7119	S6 AND (HIGHLEVEL? OR LOWLEVEL? OR MIDLEVEL? OR LEVEL?)
S8	343	S7 AND (DATABASE? OR SEARCHENGINE? OR SEARCH()ENGINE? OR D- ATA() (BASE? OR BANK?) OR DB OR OODB OR DBM)
S9	60	S8 AND (TRANSLAT? OR TRANSFORM? OR CONVERT? OR CONVERSION?)
S10	36	S9 AND (QUERY OR QUERIES OR REQUEST? OR SEARCH? OR MATCHIN- G?)
S11	25	S9 AND (CONCEPT? OR MODULE? OR TEMPLATE? OR CONSTRUCT?)
S12	52	S10 OR S11 OR S5
S13	46	RD (unique items)
S14	37	S13 NOT PY>2001
File	2:INSPEC 1969-2004/Dec W2	(c) 2004 Institution of Electrical Engineers
File	4:INSPEC 1983-2004/Dec W2	(c) 2004 Institution of Electrical Engineers
File	6:NTIS 1964-2004/Dec W4	(c) 2004 NTIS, Intl Cpyrght All Rights Res
File	8:Ei Compendex(R) 1970-2005/Dec W4	(c) 2005 Elsevier Eng. Info. Inc.
File	34:SciSearch(R) Cited Ref Sci 1990-2004/Dec W4	(c) 2004 Inst for Sci Info
File	35:Dissertation Abs Online 1861-2004/Dec	(c) 2004 ProQuest Info&Learning
File	65:Inside Conferences 1993-2004/Dec W4	(c) 2004 BLDSC all rts. reserv.
File	636:Gale Group Newsletter DB(TM) 1987-2005/Jan 04	(c) 2005 The Gale Group
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File	247:ONTAP(R) Gale Group Magazine Index(TM)	(c) 1999 The Gale Group
File	674:Computer News Fulltext 1989-2004/Dec W2	(c) 2004 IDG Communications

14/5/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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7000745 INSPEC Abstract Number: C2001-09-6160M-012

Title: Constrained querying of multimedia databases: issues and approaches

Author(s): Natsev, A. ; Smith, J.R. ; Chang, Y. ; Li, C. ; Vitter, J.S.

Author Affiliation: Dept. of Comput. Sci., Duke Univ., Durham, NC, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)

vol.4315 p.74-85

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 2001 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(2001)4315L:74:QCMD;1-3

Material Identity Number: C574-2001-111

U.S. Copyright Clearance Center Code: 0277-786X/2001/\$15.00

Conference Title: Storage and Retrieval for Media Databases 2001

Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol

Conference Date: 24-26 Jan. 2001 Conference Location: San Jose, CA, USA

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Practical (P); Theoretical (T)

Abstract: This paper investigates the problem of high-level querying of multimedia data by imposing arbitrary domain-specific constraints among multimedia objects. We argue that the current structured query mode, and the query-by-content model, are insufficient for many important applications, and we propose an alternative query framework that unifies and extends the previous two models. The proposed framework is based on the querying-by-concept paradigm, where the query is expressed simply in terms of concepts, regardless of the complexity of the underlying multimedia search engines. The query-by-concept paradigm was previously illustrated by the CAMEL system. The present paper builds upon and extends that work by adding arbitrary constraints and multiple levels of hierarchy in the concept representation model. We consider queries simply as descriptions of virtual data set, and that allows us to use the same unifying concept representation for query specification, as well as for data annotation purposes. We also identify some key issues and challenges presented by the new framework, and outline possible approaches for overcoming them. (34 Refs)

Subfile: C

Descriptors: constraint handling; content-based retrieval; image retrieval; multimedia databases

Identifiers: constrained querying; multimedia databases; domain-specific constraints; querying-by-concept; CAMEL system; image retrieval; content based retrieval; MPEG 7

Class Codes: C6160M (Multimedia databases); C4250 (Database theory);

C7250R (Information retrieval techniques)

Copyright 2001, IEE

14/5/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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5114645 INSPEC Abstract Number: B9601-6140C-102, C9601-6160S-001

Title: Extracting multi-dimensional signal features for content-based visual query

Author(s): Chang, S.-F.; **Smith, J.R.**

Author Affiliation: Dept. of Electr. Eng., Columbia Univ., New York, NY, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)

vol.2501, pt.2 p.995-1006

Publication Date: 1995 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

U.S. Copyright Clearance Center Code: 0 8194 1858 7/95/\$6.00

Conference Title: Visual Communications and Image Processing '95

Conference Sponsor: SPIE; IEEE; Nat. Sci. Council; Minist. Educ

Conference Date: 24-26 May 1995 Conference Location: Taipei, Taiwan

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Applications (A); Theoretical (T)

Abstract: Future large visual information systems (such as image **databases** and **video** servers) require effective and efficient methods for indexing, accessing, and manipulating images based on visual content. This paper focuses on automatic extraction of low- **level** visual features such as texture, color, and shape. Continuing our prior work in compressed **video** manipulation, we also propose the possibility of deriving visual features directly from the compressed domain, such as the DCT and wavelet **transform** domain. By stressing the low- **level** features, we hope to achieve generic techniques applicable to general applications. By exploring the compressed-domain content extractability, we hope to reduce the computational complexity. We also propose a quad-tree based data structure to bind various signal features. Integrated feature maps are proposed to improve the overall effectiveness of the feature-based image **query** system. Current technical progress and system prototypes are also described. Part of the prototype work has been integrated into the **multimedia** /VOD testbed in the Advanced Image Laboratory of Columbia University. (35 Refs)

Subfile: B C

Descriptors: computational complexity; data compression; discrete cosine **transforms** ; feature extraction; image colour analysis; image texture; quadtrees; **query** processing; visual **databases** ; wavelet **transforms**

Identifiers: multi-dimensional signal features; content-based visual **query** ; large visual information systems; image **databases** ; **video** servers; visual content; automatic extraction; low- **level** visual features; texture; color; shape; compressed **video** manipulation; DCT domain; wavelet **transform** domain; computational complexity; quad-tree based data structure; integrated feature maps; feature-based image **query** system; Columbia University

Class Codes: B6140C (Optical information, image and video signal processing); C6160S (Spatial and pictorial databases); C1250 (Pattern recognition); C5260B (Computer vision and image processing techniques); C4250 (Database theory)

Copyright 1995, IEE

14/5/7 (Item 4 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

03790635 E.I. No: EIP94011195880

Title: Interoperable query processing with multiple heterogeneous knowledge servers

Author: Raschid, Louiqa; **Chang, Yahui** ; Dorr, Bonnie J.

Corporate Source: Univ of Maryland, MD, USA

Conference Title: Proceedings of the 2nd International Conference on Information and Knowledge Management

Conference Location: Washington, DC, USA Conference Date: 19931101-19931105

Sponsor: ACM, SIGART; ACM, SIGIR; International Society of Computers and Applications

E.I. Conference No.: 19822

Source: Proc 2 Int Conf Inf Knowl Manage 1993. Publ by ACM, New York, NY, USA. p 461-470

Publication Year: 1993

ISBN: 0-89791-626-3

Language: English

Document Type: CA; (Conference Article) Treatment: A; (Applications); G; (General Review)

Journal Announcement: 9403W2

Abstract: This paper describes a technique for information mediation when multiple heterogeneous knowledge and data servers are to be accessed during **query** processing. One problem is building an intelligent interface between each knowledge server (KS) and its processor (KP); and the second is to provide interoperability among multiple KP/KS so that a **query** may be answered using information from multiple sources. We present example scenarios which highlight these problems and then outline **query** mapping and **transformation** techniques that are applicable. The techniques for solving the interoperability problems involve representations in some canonical form. This includes a canonical representation (CR) corresponding to each KP/KS pair and a merged CR (MCR) to represent the mapping among the CRs. The MCR and CRs include relevant information obtained from a source **query**, and heterogeneous mapping (het-map) information, for all possible mappings among the multiple servers. The knowledge in the canonical form must be represented so that it can be easily accessed during **query transformation**. We use an example of **translating queries** from an object schema to a relational schema to illustrate typical knowledge that must be represented in some canonical form. We use a high **level** logical language, F-logic, to represent the heterogeneous mapping (het-map) and **query transformation** information as a set of declarative rules, in the canonical form. (Author abstract) Refs.

Descriptors: *Data processing; **Query** languages; Knowledge based systems; Information management; Data acquisition; Merging; Relational **database** systems; Encoding (symbols); Program processors; Program **translators**

Identifiers: **Query** processing; Multiple heterogeneous knowledge servers; Canonical representation; Information mediation

Classification Codes:

723.2 (Data Processing); 723.3 (Database Systems); 723.4 (Artificial Intelligence); 912.2 (Management); 903.1 (Information Sources & Analysis); 723.1 (Computer Programming)

723 (Computer Software); 912 (Industrial Engineering & Management); 903 (Information Science)

72 (COMPUTERS & DATA PROCESSING); 91 (ENGINEERING MANAGEMENT); 90 (GENERAL ENGINEERING)

Set	Items	Description
S1	10004981	SEARCH? OR QUERY OR QUERIES OR MATCH? OR SEEK? OR LOCATE? - OR LOCATING
S2	299366	S1(8N) (MULTIMEDIA? OR MULTI()MEDIA? OR MOVING() (PICTURE? OR IMAGE?) OR MPEG? OR MPG? OR WAV OR VIDEO? OR AUDIO? OR SOUND-?)
S3	972100	(LOW OR HIGH) ()LEVEL? OR HIGHLEVEL? OR LOWLEVEL?
S4	5054247	TRANSLAT? OR TRANSFORM? OR REFORMAT? OR CONVERT? OR CONVERSION? OR COMPILE?
S5	215843	(MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR MANY OR SEVERAL OR DIFFERENT?) (3N) (DATABASE? OR ENGINE? OR SEARCHENGINE? OR DB OR RDB OR DATA() (BANK? OR BASE?))
S6	127430	(LIBRAR? OR COLLECTION? OR GROUP? OR CLUSTER?) (3N) (MODULE? OR CONSTRAINT? OR CONSTRUCT? OR TEMPLATE? OR CONCEPT?)
S7	39730	(SAVE? OR CACHE? OR PRESERV? OR DATABASE? OR DATABANK? OR - DB OR DATA() (BASE? OR BANK?)) (3N) (QUERY OR QUERIES OR SEARCH(-) (STRING? OR STATEMENT? OR STEP OR STEPS))
S8	20	S2(S)S3(S)S4
S9	0	S3(2N)S4(S)S2
S10	0	S2(S)S3(S)S5(S)S6
S11	0	S2(S)S3(S)S5(S)S7
S12	5	S2(S)S5(S)S6
S13	19	S2(S)S5(S)S7
S14	1	S7(S)S6(S)S5
S15	45	S8 OR S12 OR S13 OR S14
S16	30	RD (unique items)
S17	27	S16 NOT PY>2001
S18	24	S17 NOT PD>20010809
File 275:Gale Group Computer DB(TM) 1983-2005/Jan 05 (c) 2005 The Gale Group		
File 47:Gale Group Magazine DB(TM) 1959-2005/Jan 04 (c) 2005 The Gale group		
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File 553:Wilson Bus. Abs. FullText 1982-2004/Sep (c) 2004 The HW Wilson Co		
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File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 610:Business Wire 1999-2005/Jan 05
(c) 2005 Business Wire.
File 647:CMP Computer Fulltext 1988-2005/Dec W3
(c) 2005 CMP Media, LLC
File 98:General Sci Abs/Full-Text 1984-2004/Sep
(c) 2004 The HW Wilson Co.
File 148:Gale Group Trade & Industry DB 1976-2005/Jan 05
(c)2005 The Gale Group
File 634:San Jose Mercury Jun 1985-2004/Dec 31
(c) 2005 San Jose Mercury News

18/3,K/10 (Item 4 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
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03531160 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Managing multimedia information in database systems

Grosky, William I

Communications of the ACM (GACM), v40 n12, p72-80, p.9

Dec 1997

ISSN: 0001-0782 JOURNAL CODE: GACM

DOCUMENT TYPE: Feature

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 4968

TEXT:

... launch the field of multimedia indexing. Multimedia indexing, in turn, started the ball rolling toward **multimedia query** optimization techniques.

A **multimedia query** was seen as quite **different** from a standard **database query** and closer to queries in an information-retrieval setting. The implications of this important concept...

18/3,K/13 (Item 2 from file: 88)
DIALOG(R)File 88:Gale Group Business A.R.T.S.
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04002025 SUPPLIER NUMBER: 18605647
Intelligent query answering by knowledge discovery techniques.
Han, Jiawei; Huang, Yue; Cercone, Nick; Fu, Yongjian
IEEE Transactions on Knowledge and Data Engineering, v8, n3, p373(18)
June, 1996
ISSN: 1041-4347 LANGUAGE: English RECORD TYPE: Abstract

AUTHOR ABSTRACT: Knowledge discovery facilitates querying **database** knowledge and intelligent **query** answering in **database** systems. In this paper, we investigate the application of discovered knowledge, concept hierarchies, and knowledge discovery tools for intelligent **query** answering in **database** systems. A knowledge-rich data model is constructed to incorporate discovered knowledge and knowledge discovery...

...query answering using discovered knowledge and/or knowledge discovery tools, which includes generalization, data summarization, **concept clustering**, rule discovery, query rewriting, deduction, lazy evaluation, application of **multiple**-layered **databases**, etc. Our study shows that knowledge discovery substantially broadens the spectrum of intelligent query answering...

...Terms - Database and knowledge-base systems, knowledge discovery in databases, knowledge-rich data model, intelligent **query** answering, **multiple** layered **databases**, **query** analysis and **query** processing.

Set	Items	Description
S1	9716	SEARCH? OR QUERY OR QUERIES OR MATCH? OR SEEK? OR LOCATE? - OR LOCATING
S2	240	S1(8N) (MULTIMEDIA? OR MULTI()MEDIA? OR MOVING() (PICTURE? OR IMAGE?) OR MPEG? OR MPG? OR WAV OR VIDEO? OR AUDIO? OR SOUND- ?)
S3	574	(LOW OR HIGH) ()LEVEL? OR HIGHLEVEL? OR LOWLEVEL?
S4	5563	TRANSLAT? OR TRANSFORM? OR REFORMAT? OR CONVERT? OR CONVER- SION? OR COMPILE?
S5	772	(MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURALITY OR MANY OR SEVERAL OR DIFFERENT?) (3N) (DATABASE? OR ENGINE? OR SEARCHENG- INE? OR DB OR RDB OR DATA() (BANK? OR BASE?))
S6	246	(LIBRAR? OR COLLECTION? OR GROUP? OR CLUSTER?) (3N) (MODULE? OR CONSTRAINT? OR CONSTRUCT? OR TEMPLATE? OR CONCEPT?)
S7	167	(SAVE? OR CACHE? OR PRESERV? OR DATABASE? OR DATABANK? OR - DB OR DATA() (BASE? OR BANK?)) (3N) (QUERY OR QUERIES OR SEARCH(-) (STRING? OR STATEMENT? OR STEP OR STEPS))
S8	0	S2 AND S3 AND S4
S9	34	S2 AND S4
S10	0	S9 AND S5
S11	1	S9 AND S6
S12	0	S9 AND S7
S13	4	S2 AND S3
S14	5	S11 OR S13
S15	5	S14 NOT PY>2001
S16	3	S15 NOT PD>20010809

File 256:TecInfoSource 82-2004/Dec
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